

ABSTRACT OF THE DISCLOSEURE

A standing wave self-compensating laser resonator for preventing the utilization efficiency of a laser beam from being lowered, while at the same time, improving the quality of the laser beam wherein, a first reflecting apparatus 21 having first and second reflecting surfaces 21a, 21b disposed at a right angle to each other and a second reflecting apparatus 22 having third and fourth reflecting surfaces 22a, 22b disposed at a right angle to each other face each other such that ridges 21c, 22c are orthogonal, a third reflecting apparatus 123 having two reflecting surfaces which are approximately parallel to and face from each other is provided between the second reflecting surface 21b and fourth reflecting surface 22b, a laser medium 23 is provided between the first reflecting surface 21a and third reflecting surface 22a, and the laser beam is not incident on the ridges 21c, 22c.

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